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=> s (cellulase or endoglucanase) (5a)(muta? or variant)
10 FILES SEARCHED...
L1 1660 (CELLULASE OR ENDOGLUCANASE) (5A)(MUTA? OR VARIANT)

=> s l1 (5a)(thielavia or humicola)
L2 34 L1 (5A)(THIELAVIA OR HUMICOLA)

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 18 DUP REM L2 (16 DUPLICATES REMOVED)

=> d 1-10

L3 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:392584 HCAPLUS
DN 140:387034
TI Engineered ***mutants*** of ***Humicola*** ***cellulase***
NCE5 with improved surfactant and alkaline tolerance
IN Okakura, Kaoru; Yanai, Koji
PA Meiji Seika Kaisha, Ltd., Japan
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004039969	A1	20040513	WO 2003-JP14013	20031031
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	JP 2002-318303	A	20021031		
RE.CNT	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L3 ANSWER 2 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
DUPLICATE 1
AN 2003-13974 BIOTECHDS
TI solid-phase synthesis of oligosaccharide or glycopeptide, by enzymatically glycosylating saccharide or polypeptide acceptor molecule attached to solid support, in the presence of a glycosynthase enzyme; sugar and peptide production using recombinant enzyme
AU WITHERS S G; JENSEN K J; PETERSEN L; TOLBERG J L

PA UNIV BRITISH COLUMBIA
 PI WO 2003018605 6 Mar 2003
 AI WO 2002-IB3915 26 Aug 2002
 PRAI US 2001-314921 24 Aug 2001; US 2001-314921 24 Aug 2001
 DT Patent
 LA English
 OS WPI: 2003-342444 [32]

L3 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:466676 HCAPLUS
 DN 139:49117
 TI Variant endoglucanase EGI-III-like cellulases with modified stability for
 detergent compositions and biomass conversion to glucose
 IN Day, Anthony G.; Gualfetti, Peter; Mitchinson, Colin; Shaw, Andrew
 PA Genencor International, Inc., USA
 SO U.S., 22 pp., Cont.-in-part of U. S. Ser. No. 216,295.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6579841	B1	20030617	US 2000-633085	20000804
	US 6268328	B1	20010731	US 1998-216295	19981218
	WO 2002012466	A2	20020214	WO 2001-US23991	20010731
	WO 2002012466	A3	20030501		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001079111	A5	20020218	AU 2001-79111	20010731
	EP 1328645	A2	20030723	EP 2001-957356	20010731
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004505630	T2	20040226	JP 2002-517757	20010731
PRAI	US 1998-216295	A2	19981218		
	US 2000-633085	A	20000804		
	WO 2001-US23991	W	20010731		

RE.CNT 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:408813 HCAPLUS
 DN 137:1504
 TI Genetic engineering of Zygomycetes endoglucanases to remove
 cellulose-binding domain for increase the enzyme catalytic activity
 IN Nakane, Akitaka; Baba, Yuko; Koga, Jinichiro; Kubota, Hidetoshi
 PA Meiji Seika Kaisha, Ltd., Japan
 SO PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002042474	A1	20020530	WO 2001-JP10188	20011121
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002024068	A5	20020603	AU 2002-24068	20011121
	EP 1344820	A1	20030917	EP 2001-997189	20011121
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004043400	A1	20040304	US 2003-432290	20030520
PRAI	JP 2000-354296	A	20001121		

WO 2001-JP10188 W 20011121
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 18 MEDLINE on STN DUPLICATE 2
AN 2002187162 MEDLINE
DN PubMed ID: 11921222
TI Chemoenzymatic synthesis of a bifunctionalized cellohexaoside as a
specific substrate for the sensitive assay of cellulase by fluorescence
quenching.
AU Boyer Viviane; Fort Sebastien; Frandsen Torben P; Schulein Martin; Cottaz
Sylvain; Driguez Hugues
CS Centre de Recherches sur les Macromolecules Vegetales, CERMAV-CNRS,
Universite Joseph Fourier B.P. 53, 38041 Grenoble cedex 9, France.
SO Chemistry (Weinheim an der Bergstrasse, Germany), (2002 Mar 15) 8 (6)
1389-94.
Journal code: 9513783. ISSN: 0947-6539.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200304
ED Entered STN: 20020403
Last Updated on STN: 20021211
Entered Medline: 20030425

L3 ANSWER 6 OF 18 MEDLINE on STN DUPLICATE 3
AN 2002030782 MEDLINE
DN PubMed ID: 11757657
TI Oligosaccharide synthesis by coupled endo-glycosynthases of different
specificity: a straightforward preparation of two mixed-linkage
hexasaccharide substrates of 1,3/1,4-beta-glucanases.
AU Faijes M; Fairweather J K; Driguez H; Planas A
CS Laboratori de Bioquímica, Institut Quimic de Sarria Universitat Ramon
Llull, Barcelona, Spain.
SO Chemistry (Weinheim an der Bergstrasse, Germany), (2001 Nov 5) 7 (21)
4651-5.
Journal code: 9513783. ISSN: 0947-6539.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20020124
Last Updated on STN: 20020128
Entered Medline: 20020123

L3 ANSWER 7 OF 18 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on
STN DUPLICATE 4
AN 2001:811425 SCISEARCH
GA The Genuine Article (R) Number: 479JM
TI Protonation curves of the D10N ***variant*** of ***endoglucanase***
Cel45 catalytic domain from ***Humicola*** insolens. Isothermal
calorimetry and combined isoelectric focusing-electrophoresis
AU Attanasio F; Bruschi M; Candiano G; Ponassi R; Castagnino N; Schulein M;
Rialdi G (Reprint)
CS CNR, Ist Studi Chimicofis Macromol Sintetiche & Nat, Via De Marini 6,
I-16149 Genoa, Italy (Reprint); CNR, Ist Studi Chimicofis Macromol
Sintetiche & Nat, I-16149 Genoa, Italy; Ist Giannina Gaslini, Dipt Nefrol
Genova, Genoa, Italy; Novozymes AS, Bagsvaerd, Denmark
CYA Italy; Denmark
SO JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, (OCT 2001) Vol. 66, No. 1,
pp. 123-132.
Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA
DORDRECHT, NETHERLANDS.
ISSN: 1418-2874.
DT Article; Journal
LA English
REC Reference Count: 29
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 8 OF 18 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation. on
STN DUPLICATE 5
AN 2000:484721 SCISEARCH
GA The Genuine Article (R) Number: 327KK
TI Highly efficient synthesis of beta(1->4)-oligo- and -polysaccharides using

a mutant cellulase
 AU Fort S; Boyer V; Greffe L; Davies G; Moroz O; Christiansen L; Schulein M; Cottaz S; Driguez H (Reprint)
 CS CNRS, CTR RECH MACROMOL VEGETALES, BP 53, F-38041 GRENOBLE 9, FRANCE (Reprint); CNRS, CTR RECH MACROMOL VEGETALES, F-38041 GRENOBLE 9, FRANCE; UNIV YORK, DEPT CHEM, STRUCT BIOL LAB, YORK YO10 5DD, N YORKSHIRE, ENGLAND; NOVO NORDISK AS, DK-2880 BAGSVAERD, DENMARK
 CYA FRANCE; ENGLAND; DENMARK
 SO JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (14 JUN 2000) Vol. 122, No. 23, pp. 5429-5437.
 Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
 ISSN: 0002-7863.
 DT Article; Journal
 FS PHYS; LIFE
 LA English
 REC Reference Count: 54
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 9 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 2000-09611 BIOTECHDS
 TI Highly efficient synthesis of beta(1-4)-oligo and polysaccharides using a mutant cellulase;
 stereospecific oligosaccharide and polysaccharide production via
 Humicola insolens ***mutant*** ***cellulase*** -
 endoglucanase -I-catalyzed glycosylation
 AU Fort S; Boyer V; Greffe L; Davies G J; Moroz O; Christiansen L; Schulein M; Cottaz S; Driguez H
 CS CNRS; Univ.York; Novo-Nordisk
 LO Centre de Recherches sur les Macromolecules Vegetales, CNRS, BP 53, 38041, Grenoble Cedex 9, France.
 SO J.Am.Chem.Soc.; (2000) 122, 23, 5429-37
 CODEN: JACSAT ISSN: 0002-7863
 DT Journal
 LA English

L3 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:48790 HCAPLUS
 DN 130:106943
 TI Variants of Humicola family 6 endo-1,4-.beta.-glucanases CelA and CelB and their use in cleaning compositions
 IN Lund, Henrik; Nielsen, Jack Bech; Schulein, Martin; Damgaard, Bo; Andersen, Kim Vilbour
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 271 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9901544	A1	19990114	WO 1998-DK299	19980702
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9879088	A1	19990125	AU 1998-79088	19980702
EP 1002061	A1	20000524	EP 1998-929249	19980702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
PRAI DK 1997-813		19970704		
WO 1998-DK299		19980702		
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

=> d 11-18

L3 ANSWER 11 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 DUPLICATE 6
 AN 1998-06599 BIOTECHDS
 TI New cellulase enzyme variants;
 enzyme engineering
 AU Andersen K V; Schyelein M; Christiansen L; Damgaard B

PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9812307 26 Mar 1998
AI WO 1997-DK393 17 Sep 1997
PRAI DK 1996-1013 17 Sep 1996
DT Patent
LA English
OS WPI: 1998-217251 [19]

L3 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:382773 HCAPLUS
DN 129:119510
TI Kinetics of fungal cellulases
AU Schulein, M.
CS Novo Nordisk, Bagsvaerd, DK 2880, Den.
SO Biochemical Society Transactions (1998), 26(2), 164-167
CODEN: BCSTB5; ISSN: 0300-5127
PB Portland Press Ltd.
DT Journal; General Review
LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:682827 HCAPLUS
DN 127:328323
TI Oligosaccharide specificity of a family 7 endoglucanase: insertion of
potential sugar-binding subsites
AU Davies, Gideon J.; Ducros, Valerie; Lewis, Richard J.; Borchert, Torben
V.; Schulein, Martin
CS Dep. Chem., Univ. York, Heslington, York, YO1 5DD, UK
SO Journal of Biotechnology (1997), 57(1-3), 91-100
CODEN: JBITD4; ISSN: 0168-1656
PB Elsevier
DT Journal
LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
AN 1996-10242 BIOTECHDS
TI Obtaining cellulose textile fabrics with reduced tendency to pilling
formation;
using a Humicola ionsoleus cellulase analog obtained by enzyme
engineering
AU Lund H; Pedersen H H
PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9617994 13 Jun 1996
AI WO 1995-DK488 5 Dec 1995
PRAI DK 1994-1387 5 Dec 1994
DT Patent
LA English
OS WPI: 1996-287233 [29]

L3 ANSWER 15 OF 18 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
on STN DUPLICATE 7
AN 95:190979 SCISEARCH
GA The Genuine Article (R) Number: QL109
TI ISOLATION AND PROPERTIES OF A THERMOSTABLE ***ENDOGLUCANASE*** FROM A
THERMOPHILIC ***MUTANT*** STRAIN OF ***THIELAVIA*** -TERRESTRIS
AU KVESITADZE E G (Reprint); LOMITASHVILI T B; KHUTSISHVILI M P; LAMED R;
BAYER E A
CS GEORGIAN ACAD SCI, INST PLANT BIOCHEM, TBILISI 380059, REP OF GEORGIA
(Reprint); TEL AVIV UNIV, GEORGE S WISE FAC LIFE SCI, DEPT MOLEC MICROBIOL
& BIOTECHNOL, RAMAT AVIV, ISRAEL; WEIZMANN INST SCI, DEPT BIOPHYS,
IL-76100 REHOVOT, ISRAEL
CYA REPUBLIC OF GEORGIA; ISRAEL
SO APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, (FEB 1995) Vol. 50, No. 2, pp.
137-143.
ISSN: 0273-2289.
DT Article; Journal
FS LIFE; AGRI
LA ENGLISH
REC Reference Count: 20
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 16 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 DUPLICATE 8
 AN 1994-07745 BIOTECHDS
 TI Recombinant cellulase ***variant*** of a parent ***cellulase*** ,
 e.g. ***Humicola*** insolens 43 kDa cellulase;
 prepared by enzyme engineering and useful in surfactant composition in
 animal feedstuff, paper pulp processing and denim fabric stonewashing
 PA Novo-Nordisk
 PI WO 9407998 14 Apr 1994
 AI WO 1993-DK327 6 Oct 1993
 PRAI DK 1992-1543 23 Dec 1992; DK 1992-1221 6 Oct 1992
 DT Patent
 LA English
 OS WPI: 1994-135565 [16]

L3 ANSWER 17 OF 18 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1987-05586 BIOTECHDS
 TI Cellulase screening by iodine staining: an artefact;
 hydrolysis zones around colonies on cellulose-agar media are caused by
 starch hydrolysis and not cellulolysis
 AU Zitomer S W; Eveleigh D E
 LO Department of Biochemistry and Microbiology, Cook College, Rutgers
 University, New Brunswick, NJ 08903, USA.
 SO Enzyme Microb.Technol.; (1987) 9, 4, 214-16
 CODEN: EMTED2
 DT Journal
 LA English

L3 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:420820 HCAPLUS
 DN 105:20820
 TI Production and characteristics of Avicel-disintegrating endoglucanase from
 a protease-negative Humicola grisea var. thermoidea mutant
 AU Hayashida, Shinsaku; Mo, Kaiguo
 CS Dep. Agric. Chem., Kyushu Univ., Fukuoka, 812, Japan
 SO Applied and Environmental Microbiology (1986), 51(5), 1041-6
 CODEN: AEMIDF; ISSN: 0099-2240
 DT Journal
 LA English

=> dis his

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 11:53:12 ON 13 OCT 2004
 L1 1660 S (CELLULASE OR ENDOGLUCANASE) (5A)(MUTA? OR VARIANT)
 L2 34 S L1 (5A)(THIELAVIA OR HUMICOLA)
 L3 18 DUP REM L2 (16 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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46.79

SESSION WILL BE HELD FOR 60 MINUTES

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<input type="checkbox"/>	L4	L2 and(119 or 118)	15
<input type="checkbox"/>	L3	L2 with (119 or 118)	0
<input type="checkbox"/>	L2	L1 with (humicola or thielavia)	28
<input type="checkbox"/>	L1	(cellulase or endoglucanase) with (muta\$ or variant)	719

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☐ 1. Document ID: US 20040063597 A1

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L2: Entry 1 of 28

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040063597

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040063597 A1

TITLE: Fabric care compositions

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adair, Matha J.	Pleasanton	CA	US	
Finn, Leslie S.	Pleasanton	CA	US	
Petrin, Michael J.	Pleasanton	CA	US	
Rodriguez, Cheryl H.	Pleasanton	CA	US	
Shanks, Philip C.	Oakland	CA	US	
Buskirk, Gregory Van	Pleasanton	CA	US	
De Leo, Malcolm A.	Pleasanton	CA	US	
Selbach, Hanneliese S.	Pleasanton	CA	US	
Ochomogo, Maria G.	Pleasanton	CA	US	

US-CL-CURRENT: [510/276](#); [510/392](#)

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Data](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [EPMC](#) [Drawings](#)

☐ 2. Document ID: US 20040043400 A1

L2: Entry 2 of 28

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043400

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040043400 A1

TITLE: Zygomycetes-derived endoglucanase enzyme lacking cellulose-binding domain

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

h e b b g e e e f e ef b e

NAME	CITY	STATE	COUNTRY	RULE-47
Nakane, Akitaka	Saitama		JP	
Baba, Yuko	Saitama		JP	
Koga, Jinichiro	Saitama		JP	
Kubota, Hidetoshi	Saitama		JP	

US-CL-CURRENT: 435/6; 435/200, 435/254.2, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FOUO	Drawings
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☐ 3. Document ID: US 20030138880 A1

L2: Entry 3 of 28

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138880

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138880 A1

TITLE: Solid-phase synthesis of oligosaccharides and glycopeptides using glycosynthases

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Withers, Stephen G.	Vancouver		CA	
Jensen, Knud J.	Copenhagen		DK	
Petersen, Lars	Copenhagen		DK	
Tolborg, Jakob L.	Ballerup		DK	

US-CL-CURRENT: 435/68.1; 435/101, 435/85

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FOUO	Drawings
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☐ 4. Document ID: US 20030092097 A1

L2: Entry 4 of 28

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092097

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092097 A1

TITLE: CELLULASE VARIANTS

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
ANDERSEN, KIM VILBOUR	COPENHAGEN		DK	
SCHULEIN, MARTIN	COPENHAGEN		DK	

CHRISTIANSEN, LARS	VIRUM	DK
DAMGAARD, BO	LAUSANNE	CH
VON DER OSTEN, CLAUS	LYNGBY	DK

US-CL-CURRENT: 435/69.1; 435/195, 435/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Drawings
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☐ 5. Document ID: US 6264925 B1

L2: Entry 5 of 28

File: USPT

Jul 24, 2001

US-PAT-NO: 6264925

DOCUMENT-IDENTIFIER: US 6264925 B1

TITLE: Cellulose binding domains (CBDs) for oral care products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Drawings
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☐ 6. Document ID: US 6146428 A

L2: Entry 6 of 28

File: USPT

Nov 14, 2000

US-PAT-NO: 6146428

DOCUMENT-IDENTIFIER: US 6146428 A

TITLE: Enzymatic treatment of denim

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Drawings
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☐ 7. Document ID: US 6117664 A

L2: Entry 7 of 28

File: USPT

Sep 12, 2000

US-PAT-NO: 6117664

DOCUMENT-IDENTIFIER: US 6117664 A

**** See image for Certificate of Correction ****

TITLE: Alkaline cellulases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Drawings
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☐ 8. Document ID: US 6114296 A

L2: Entry 8 of 28

File: USPT

Sep 5, 2000

US-PAT-NO: 6114296

DOCUMENT-IDENTIFIER: US 6114296 A

**** See image for Certificate of Correction ****

TITLE: Cellulase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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☐ 9. Document ID: US 6087148 A

L2: Entry 9 of 28

File: USPT

Jul 11, 2000

US-PAT-NO: 6087148

DOCUMENT-IDENTIFIER: US 6087148 A

TITLE: Method of purification of cellulose from a broth solution by crystallization

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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☐ 10. Document ID: US 6083739 A

L2: Entry 10 of 28

File: USPT

Jul 4, 2000

US-PAT-NO: 6083739

DOCUMENT-IDENTIFIER: US 6083739 A

TITLE: Treatment of cellulose fabrics with cellulases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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L1 with (humicola or thielavia)

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Search Results - Record(s) 11 through 20 of 28 returned.

☐ 11. Document ID: US 6066481 A

Using default format because multiple data bases are involved.

L2: Entry 11 of 28

File: USPT

May 23, 2000

US-PAT-NO: 6066481

DOCUMENT-IDENTIFIER: US 6066481 A

TITLE: Crystallization of a protein with a sulphur salt

DATE-ISSUED: May 23, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nielsson; Stig	Lynge			DK
Laustsen; Mads Aage	Lynngby			DK

US-CL-CURRENT: 435/183; 210/702, 435/189, 435/195, 435/198, 435/202, 435/219,
435/220, 435/221, 435/816

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 12. Document ID: US 6031082 A

L2: Entry 12 of 28

File: USPT

Feb 29, 2000

US-PAT-NO: 6031082

DOCUMENT-IDENTIFIER: US 6031082 A

TITLE: Increased yields of a crystallized protein by using a solid adsorption material

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw D
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☐ 13. Document ID: US 6017751 A

L2: Entry 13 of 28

File: USPT

Jan 25, 2000

US-PAT-NO: 6017751

DOCUMENT-IDENTIFIER: US 6017751 A

TITLE: Process and composition for desizing cellulosic fabric with an enzyme hybrid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw Dg
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☐ 14. Document ID: US 6015783 A

L2: Entry 14 of 28

File: USPT

Jan 18, 2000

US-PAT-NO: 6015783

DOCUMENT-IDENTIFIER: US 6015783 A

TITLE: Process for removal or bleaching of soiling or stains from cellulosic fabric

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw Dg
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☐ 15. Document ID: US 5958082 A

L2: Entry 15 of 28

File: USPT

Sep 28, 1999

US-PAT-NO: 5958082

DOCUMENT-IDENTIFIER: US 5958082 A

TITLE: Garments with considerable variation in abrasion level

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw Dg
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☐ 16. Document ID: US 5916798 A

L2: Entry 16 of 28

File: USPT

Jun 29, 1999

US-PAT-NO: 5916798

DOCUMENT-IDENTIFIER: US 5916798 A

TITLE: Method of obtaining a cellulosic textile fabric with reduced tendency to pilling formation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw Dg
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☐ 17. Document ID: US 5908472 A

L2: Entry 17 of 28

File: USPT

Jun 1, 1999

US-PAT-NO: 5908472

DOCUMENT-IDENTIFIER: US 5908472 A

TITLE: Fabric treated with cellulase and oxidoreductase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw Dg
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☐ 18. Document ID: US 5792641 A

L2: Entry 18 of 28

File: USPT

Aug 11, 1998

US-PAT-NO: 5792641

DOCUMENT-IDENTIFIER: US 5792641 A

**** See image for Certificate of Correction ****

TITLE: Cellulase variants and detergent compositions containing cellulase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw
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☐ 19. Document ID: US 4435307 A

L2: Entry 19 of 28

File: USPT

Mar 6, 1984

US-PAT-NO: 4435307

DOCUMENT-IDENTIFIER: US 4435307 A

TITLE: Detergent cellulase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw
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☐ 20. Document ID: JP 2004065255 A

L2: Entry 20 of 28

File: JPAB

Mar 4, 2004

PUB-NO: JP02004065255A

DOCUMENT-IDENTIFIER: JP 2004065255 A

TITLE: CELLULASES VARIANTS COMPOSITION

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw
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☐ 21. Document ID: EP 1431389 A2

Using default format because multiple data bases are involved.

L2: Entry 21 of 28

File: EPAB

Jun 23, 2004

PUB-NO: EP001431389A2

DOCUMENT-IDENTIFIER: EP 1431389 A2

TITLE: Cellulase variants

PUBN-DATE: June 23, 2004

INVENTOR-INFORMATION:

NAME

COUNTRY

SCHUELEIN, MARTIN

NO

FREDHOLM, HENRIK

NO

HJORT, CARSTEN MAILAND

DK

RASMUSSEN, GRETHE

DK

NIELSEN, EGON

DK

ROSHOLM, PETER

DK

INT-CL (IPC): C12 N 9/42; C11 D 3/386; C12 N 15/56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FOIAC	Drawings
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☐ 22. Document ID: WO 9901544 A1

L2: Entry 22 of 28

File: EPAB

Jan 14, 1999

PUB-NO: WO009901544A1

DOCUMENT-IDENTIFIER: WO 9901544 A1

TITLE: FAMILY 6 ENDO-1,4- beta -GLUCANASE VARIANTS AND CLEANING COMPOSIT IONS CONTAINING THEM

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FOIAC	Drawings
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☐ 23. Document ID: WO 9812307 A1

L2: Entry 23 of 28

File: EPAB

Mar 26, 1998

PUB-NO: WO009812307A1

DOCUMENT-IDENTIFIER: WO 9812307 A1

TITLE: CELLULASE VARIANTS

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 24. Document ID: WO 9617994 A1

L2: Entry 24 of 28

File: EPAB

Jun 13, 1996

PUB-NO: WO009617994A1

DOCUMENT-IDENTIFIER: WO 9617994 A1

TITLE: A METHOD OF OBTAINING A CELLULOSIC TEXTILE FABRIC WITH REDUCED TENDENCY TO PILLING FORMATION

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 25. Document ID: WO 9407998 A1

L2: Entry 25 of 28

File: EPAB

Apr 14, 1994

PUB-NO: WO009407998A1

DOCUMENT-IDENTIFIER: WO 9407998 A1

TITLE: CELLULASE VARIANTS

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 26. Document ID: JP 3532576 B2, WO 9812307 A1, AU 9742007 A, EP 937138 A1, BR 9711479 A, CN 1230987 A, JP 2000514311 W, US 20030092097 A1, JP 2004065255 A

L2: Entry 26 of 28

File: DWPI

May 31, 2004

DERWENT-ACC-NO: 1998-217251

DERWENT-WEEK: 200436

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TITLE: Cellulase enzyme variants - having amino acid changes which improve properties e.g. activity, sensitivity to surfactants, pH optimum or stability

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw D
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☐ 27. Document ID: MX 205108 B, WO 9617994 A1, AU 9539791 A, EP 796365 A1, BR 9509949 A, TW 316930 A, HU 77195 T, JP 10509776 W, US 5916798 A, MX 9703931 A1, CN 1168705 A

L2: Entry 27 of 28

File: DWPI

Nov 9, 2001

DERWENT-ACC-NO: 1996-287233

DERWENT-WEEK: 200279

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TITLE: Cellulose textile fabric mfr. for reduced pilling formation tendency - by

treating the fabrics with a cellulase which performs a partial hydrolysis of the fibre surface, for fibres e.g. cotton or viscose

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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☐ 28. Document ID: EP 1431389 A2, WO 9407998 A1, FI 9501629 A, EP 663950 A1, JP 08501692 W, US 5792641 A, BR 9307198 A, US 6114296 A, KR 303621 B, KR 303622 B, KR 303619 B, EP 663950 B1, DE 69333454 E

L2: Entry 28 of 28

File: DWPI

Jun 23, 2004

DERWENT-ACC-NO: 1994-135565

DERWENT-WEEK: 200441

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TITLE: Cellulase variant with improved alkaline activity, particulate soil removal, etc - pref derived from Humicola insolens 43kD endoglucanase, useful in detergent compsns, animal feed, paper pulp processing and stonewashing denim

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Publ	Draw
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